

MODEL: CMS-1849-24SP

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DESCRIPTION: SPEAKER

FEATURES

- 4 ohm
- rated 2.0 W
- solder pads



SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
input power			2	2.5	W
impedance		3.4	4	4.6	Ω
resonant frequency (Fo)		424	530	636	Hz
frequency response		350		16,000	Hz
sound pressure level	at 2.0 W, 50 cm, 710Hz~10KHz, for calculation of mean SPL (1/12 octave)	79.5	82.5	85.5	dB
distortion	at 2.0 W, 50 cm, 710 Hz ~ 20 kHz (with barrier)			10	%
buzz, rattle, etc.	must be normal at sine wave			2.83	V
polarity	cone moves forward w/ positive dc current to “+” terminal				
dimensions	Ø18 x 4.9				mm
magnet	Nd-Fe-B				
frame material	PBT + 15% GF				
cone material	PU + PEI				
terminal	solder pads				
weight			3		g
operating temperature		-20		55	°C
storage temperature		-25		60	°C
hand soldering	for maximum 2 seconds	360		380	°C
RoHS	yes				

Notes:

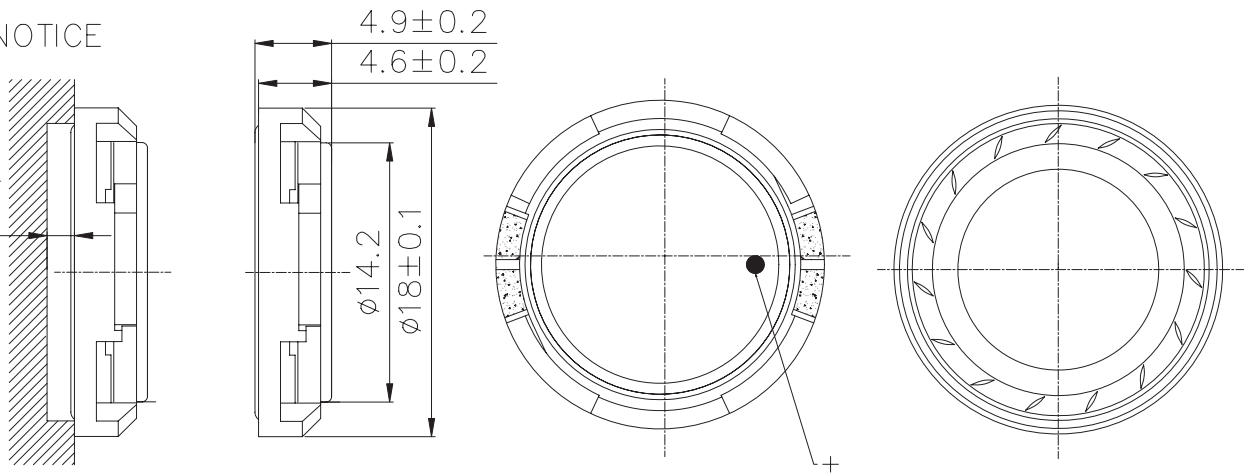
1. All specifications measured at 15~35°C, humidity at 25~75%, unless otherwise noted.

MECHANICAL DRAWING

units: mm
tolerance: ± 0.2 mm

MOUNTING NOTICE

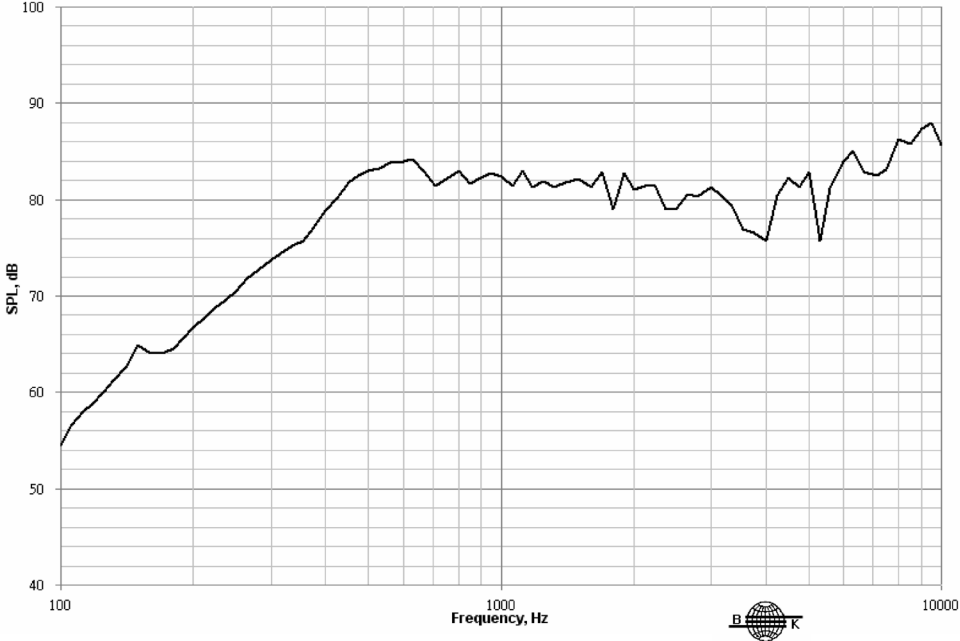
Leave
at Least
1.20 mm for
diaphragm
moving



RESPONSE CURVES

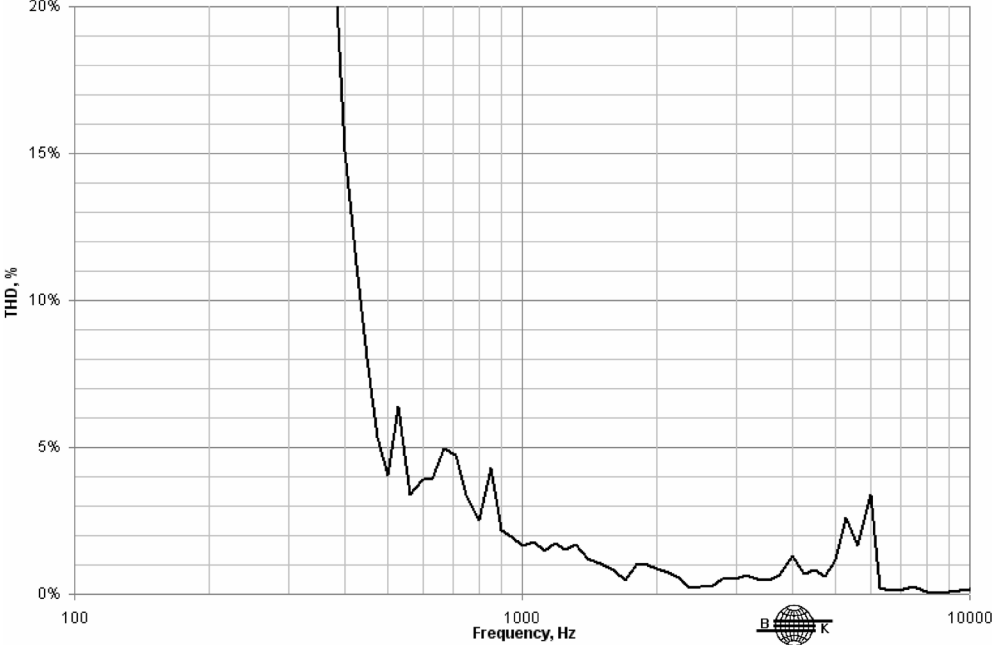
Frequency Response Curve

Test Conditions: 2.83 V / 50 cm



Total Harmonic Distortion Curve

Test Conditions: 2.83 V / 50 cm



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	2.211
Electrical Q Factor	Qes	5.073
Total Q Factor	Qts	1.54
Compliance Equivalent Volume	Vas	0.0024

Notes: 2. Results represent typical performance in Free Air conditions.

REVISION HISTORY

rev.	description	date
1.0	initial release	06/27/2023
1.01	CUI Devices rebranded to Same Sky	09/11/2024
1.02	added Thiele-Small Parameters	01/30/2025

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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